

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



549945

(43) International Publication Date
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number
WO 2004/084821 A2

- (51) International Patent Classification⁷: **A61K**
- (21) International Application Number: **PCT/US2004/008457**
- (22) International Filing Date: 19 March 2004 (19.03.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/456,302 20 March 2003 (20.03.2003) US
- (71) Applicant (for all designated States except US): **FMC CORPORATION** [US/US]; 1735 Market Street, Philadelphia, PA 19103 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **CHEN, Ruihua** [CN/US]; 16 Labrador Drive, Kendall Park, NJ 08824 (US). **GILBEY, Susan, N.** [US/US]; 152 Washington Street, Camden, ME 04843 (US). **WONG, Victoria, Y.** [US/US]; 5 Bush Lane, Enfield, CT 06082 (US). **HALLING, Blake** [US/US]; 1384 Chase Road, Newtown, PA 18940 (US). **ALLENZA, Paul** [US/US]; 16 Pleasant View Way, Flemington, NJ 08822 (US).
- (74) Agent: **SHEEHAN, John, M.**; FMC Corporation, 1735 Market Street, Philadelphia, PA 19103 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **HEMIPTERAN GLUTAMATE DECARBOXYLASE**

(57) Abstract: Novel nucleic acid sequences encoding hemipteran L-glutamate decarboxylases, and the amino acid sequence of such protein are disclosed. Methods of making and using the same are disclosed.

WO 2004/084821 A2